

Form PTO-1390 (REV 10-95)		U.S. Department of Commerce Patent and Trademark Office	ATTORNEY'S DOCKET NUMBER  <b>CNIP-A-PCT-US</b>
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>			U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>10/517091</b>
INTERNATIONAL APPLICATION NO. <b>PCT/CN2004/000029</b>	INTERNATIONAL FILING DATE <b>09 January 2004</b>	PRIORITY DATE CLAIMED <b>07 January 2004</b>	
TITLE OF INVENTION: <b>CASTING SAND HEATING APPARATUS</b>			
APPLICANT(S) FOR DO/EO/US: <b>ZHU, Xudong</b>			

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:


1. ☒ This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Article 22 and 39(1).
4. ☐ A proper Demand for International Preliminary Examination was made by the 19<sup>th</sup> month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2))
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☒ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3))
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A FIRST preliminary amendment.  
A SECOND or SUBSEQUENT preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☐ Other items or information:

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U.S. APPLICATION NO. <b>107517091</b>		INTERNATIONAL APPLICATION NO. <b>PCT/CN2004/000029</b>		ATTORNEY'S DOCKET NUMBER <b>CNIP-A-PCT-US</b>					
<b>17. <input checked="" type="checkbox"/> The following fees are submitted:</b>  <b>BASIC NATIONAL FEE (37 CFR 1.492(A)(1)-(5))</b>  Search Report has been prepared by the EPO or JPO ..... <b>\$950.00</b>  International preliminary examination fee paid to USPTO (37 CFR 1.482) ..... <b>\$750.00</b>  No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) ..... <b>\$790.00</b>  Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$1,110.00</b>  International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) ..... <b>\$100.00</b>  <div style="text-align: right;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></div>				CALCULATIONS PTO USE ONLY          					
				<b>\$1,110.00</b>					
				Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)) <div style="float: right;">20 <input type="checkbox"/> 30 <input type="checkbox"/></div>		\$			
				CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
				Total Claims	12-20=	0	X\$18.00	<b>\$0.00</b>	
Independent Claims	1-3=	0	X\$86.00	<b>\$0.00</b>					
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+\$290.00	\$0.00				
<b>TOTAL OF ABOVE CALCULATION =</b>				<b>\$1,110.00</b>					
Reduction of 1/2 for filing by small entity, if applicable.				\$555.00					
<b>SUBTOTAL =</b>				<b>\$555.00</b>					
Processing fee of <b>\$130.00</b> for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492(f)). +				\$00					
<b>TOTAL NATIONAL FEE =</b>				<b>\$555.00</b>					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +				<b>\$0.00</b>					
<b>TOTAL FEES ENCLOSED =</b>				<b>\$555.00</b>					
				Amount to be refunded:	\$				
				Charged:	\$				
<p>a. <input checked="" type="checkbox"/> A check in the amount of <b>\$555.00</b> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.                  A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to                  Deposit No. <b>08-3150</b>. A duplicate copy of this sheet is enclosed.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and                  granted to restore the application to pending status.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Daniel J. Hudak                      Hudak Shunk &amp; Farine Co. LPA                      2020 Front Street, Suite 307                      Cuyahoga Falls, Ohio 44221                      (330) 535-2220</p> </div> <div style="text-align: right;">                       Signature   <u>Daniel J. Hudak</u>                      Name   <u>25,879</u>                      Registration Number                 </div> </div>									

10/517091

DT12 Rec'd PCT/PTO 06 DEC 2004

**CERTIFICATE UNDER 37 C.F.R. §1.10 OF MAILING  
BY "EXPRESS MAIL"**

**Applicant:** Xudong Zhu  
**International Application No.:** PCT/CN2004/000029  
**International Filing Date:** 09 January 2004  
**Title:** CASTING SAND HEATING APPARATUS  
**Agent's Reference No.:** CNIP-A-PCT-US  
**Date:** December 6, 2004

**EXPRESS MAIL RECEIPT NO.: EV 435311260 US**

**DATE OF DEPOSIT: December 6, 2004**

The undersigned hereby certifies that the attached papers were deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

HUDAK, SHUNK & FARINE CO. LPA

BY:   
Daniel J. Hudak  
Agent for Applicant

DJH/lb

**Enclosures:** Express Mail Certification  
Return postcard  
Transmittal Letter to U.S. Designated/Elected Office (DO/EO/US)  
Concerning a filing under 35 USC §371 (in duplicate)  
Filing Fee by check of \$555.00 (small entity)  
Executed Declaration for Utility or Design Patent Application  
Copy of Request (4 pages)  
Copy of International Application as filed (not published yet)  
Translation of International Application (10 pages)  
1 Drawing Sheet  
Copy of Translation of Written Opinion of the International  
Searching Authority and International Search Report  
Copy of Article 19 Amendment  
Translation of the Article 19 Amendment  
Preliminary Amendment  
Copies of Forms PCT/IB/301, 304, and 346